BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Certificate in Information Technology Pearson BTEC International Level 3 Subsidiary Diploma in Information Technology Pearson BTEC International Level 3 Foundation Diploma in Information Technology Pearson BTEC International Level 3 Diploma in Information Technology Pearson BTEC International Level 3 Extended Diploma in Information Technology
Unit number and title	**Unit 23: Emerging Trends and Technologies**
Learning aim(s)	Learning aim A: Investigate developments in computing
Assignment title	Technological developments in industry and society
Assessor	
Issue date	
Hand in deadline	

Vocational scenario or context	You have recently started an internship at an independent software development company. The company develops bespoke apps and computer systems for other companies in a range of industries. The owner of the company is considering expanding and diversifying the company by entering an emerging market. The owner wants you to investigate developing trends and technologies in different industry sectors and wider society, as well as the impact they can have.
Task 1	Write an evaluative report for the owner of the company in which you evaluate how technology is developing to meet different needs, the benefits they can bring, and any associated risks and drawbacks. Your evaluation needs to cover: • developments in computing power and communications technologies • quantum computing • the key concepts and applications of neural network architectures • the basics of blockchain technologies and smart contracts • the use and application of cloud technologies • developments in manufacturing and prototyping • how current and emerging trends and technologies impact the way users make use of and interact with digital technologies including:

	ovirtual, augmented and mixed reality otrends in user interface design ouser experience (ux) odevelopments in HCI technologies onatural language processing • the wider considerations for individuals and organisations in relation to the adoption and use of new technologies. You should support your evaluation with specific real-world examples. Your evaluation should be logically structured and use correct technical terms.
Checklist of evidence required	Completed report

Criteria covered by this task:	
Criteria reference	To achieve the criteria you must show that you are able to:
A.D1	Evaluate the impact that developments in computing have on different industries and society.
A.M1	Analyse how developments in computing impact different industries and society.
A.P1	Describe current and emerging trends and technologies and their how they impact different industries and society.
A.P2	Describe how developments in computing impact users that make use of and interact with digital technologies.

Sources of information to support you with this Assignment	
Other assessment materials attached to this Assignment Brief	